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PRODUCT INFORMATION SHEET

Product Name: **TOYOPEARL® AF-rProtein L-650F Resins**
 (functionalized resin for affinity chromatography)

Part Numbers:

23486	TOYOPEARL AF-rProtein L -650F, 45 µm, 10 mL
23487	TOYOPEARL AF-rProtein L -650F, 45 µm, 25 mL
23488	TOYOPEARL AF-rProtein L -650F, 45 µm, 100 mL
23489	TOYOPEARL AF-rProtein L -650F, 45 µm, 1 L
23490	TOYOPEARL AF-rProtein L -650F, 45 µm, 5 L
23494	ToyoScreen AF-rProtein L -650F, 1 mL x 5 ea.
23495	ToyoScreen AF-rProtein L -650F, 5 mL x 1 ea.
23496	ToyoScreen AF-rProtein L -650F, 5 mL x 5 ea.

Product Description: **TOYOPEARL®** chromatographic resins are comprised of a methacrylic polymer incorporating high mechanical and chemical stability. Resins are available as non-functionalized “HW” series resins for size exclusion separations, and derivatized with surface chemistries for alternative modes of chromatography such as ion exchange, hydrophobic interaction or affinity separations.

TOYOPEARL® AF-rProtein L -650F chromatographic resin is a functionalized support resin for affinity chromatography. The resin is prepared by multipoint attachment of a recombinant Protein L ligand onto TOYOPEARL HW-65F. TOYOPEARL AF-rProtein L-650F is useful for the chromatographic purification of immunoglobulins and their fragments at lab and process scale. The rProtein L ligand is not animal derived.

Lot-specific specifications are included in the Certificate of Analysis (C of A) shipped with the product.

Formulation: Particulate resin (spherical), available in a particle size (mean diameter) of 45 µm = “F”-grade. Supplied as 72% (v/v) slurry in 20 % ethanol (v/v).

Physicochemical Specifications:

Appearance	White resin slurry which settles upon standing
Particle Size Distribution (≥80 % within range)	30 – 60 µm for F-grade
Mean Pore Diameter (base resin)	100 nm
Pressure drop across the column	max. 0.3 MPa (recommended)
Operating Linear Flowrate	normally 10 – 600 cm/hour
Ligand	Recombinant Protein L (not animal derived)
Protein Adsorption Capacity	≥ 64 g/L (human antibody - Static) > 38 g/L human Fab (dynamic @ 4 min residence time)
Bacterial Count	≤ 100 CFU/mL
Endotoxin Concentration	≤ 10.0 endotoxin units/mL
Pack sizes and type	10 mL, 100 mL, 250 mL, 1 L, 5 L Packed in virgin Polyethylene container with Polypropylene cap.
Resin Volume per Container	The indicated volume is the settled resin volume.
Shipping Solvent	72% (v/v) slurry in 20 % (v/v) ethanol
Long Term Storage Conditions	20 % (v/v) ethanol (shipping solvent) at 4 °C
Foreign Substance	≤ 6
Eluable Matter	≤ 0.2 % for dry gel
Shelf Life Stability	Estimated minimum 10 years